



300 and 900 Series Coalescent Oil Separators: kW

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °C	kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling							
R-1234yf	4.4	5.27	10.54	7.08	13.18	18.96	26.37	47.46	72.16
	-1.1	4.27	8.53	5.73	10.67	15.35	21.35	38.41	58.41
	-6.7	3.43	6.85	4.60	8.57	12.32	17.13	30.83	46.88
	-12.2	2.72	5.45	3.66	6.81	9.80	13.63	24.53	37.29
	-17.8	2.15	4.29	2.88	5.37	7.72	10.73	19.32	29.37
	-23.3	1.75	3.50	2.35	4.38	6.29	8.75	15.75	23.95
	-28.9	1.29	2.57	1.73	3.22	4.63	6.44	11.59	17.62
	-34.4	0.98	1.96	1.32	2.45	3.52	4.90	8.81	13.40
-40	0.73	1.47	0.99	1.84	2.64	3.67	6.61	10.04	
R-1234ze	4.4	4.16	8.32	5.59	10.41	14.97	20.81	37.46	56.96
	-1.1	3.34	6.68	4.49	8.35	12.00	16.70	30.05	45.69
	-6.7	2.65	5.31	3.57	6.63	9.54	13.27	23.88	36.31
	-12.2	2.09	4.17	2.81	5.22	7.51	10.44	18.79	28.57
	-17.8	1.62	3.25	2.18	4.06	5.84	8.12	14.62	22.23
	-23.3	1.25	2.50	1.68	3.12	4.49	6.25	11.24	17.10
	-28.9	0.95	1.90	1.27	2.37	3.41	4.74	8.53	12.98
	-34.4	0.71	1.42	0.95	1.77	2.55	3.55	6.39	9.71
-40	0.52	1.05	0.70	1.31	1.88	2.62	4.71	7.16	
R-134a	7.22	6.17	12.35	8.30	15.44	22.20	30.88	55.57	84.49
	4.4	5.56	11.12	7.47	13.91	20.00	27.81	50.05	76.10
	-1.1	4.50	8.99	6.04	11.25	16.17	22.50	40.48	61.56
	-6.7	3.60	7.20	4.84	9.00	12.94	18.00	32.39	49.25
	-12.2	2.85	5.70	3.83	7.13	10.26	14.27	25.68	39.04
	-17.8	2.24	4.49	3.02	5.61	8.07	11.23	20.20	30.72
	-23.3	1.74	3.47	2.33	4.34	6.24	8.68	15.62	23.76
	-28.9	1.34	2.68	1.80	3.35	4.82	6.71	12.07	18.35
-34.4	1.01	2.02	1.35	2.52	3.63	5.04	9.07	13.80	
-40	0.75	1.50	1.01	1.88	2.70	3.75	6.76	10.27	
R-22	4.4	8.64	17.28	11.61	21.61	31.07	43.22	77.78	118.26
	-1.1	7.18	14.36	9.65	17.95	25.82	35.91	64.62	98.26
	-6.7	5.91	11.83	7.95	14.79	21.27	29.59	53.25	80.96
	-12.2	4.83	9.67	6.50	12.09	17.38	24.18	43.51	66.16
	-17.8	3.92	7.84	5.27	9.80	14.10	19.61	35.28	53.65
	-23.3	3.15	6.29	4.23	7.87	11.32	15.74	28.33	43.08
	-28.9	2.50	5.01	3.36	6.26	9.00	12.52	22.54	34.27
	-34.4	1.97	3.93	2.64	4.92	7.07	9.83	17.70	26.91
-40	1.53	3.06	2.06	3.83	5.51	7.66	13.79	20.97	
R-23	See "300 and 900 Series: Ultra Low Temperature: kW" Chart								
R-290	See "300 and 900 Series: Natural Refrigerants" Chart								

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °C	kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling							
R401A MP-39	10	6.82	13.63	9.16	17.05	24.52	34.10	61.36	93.30
	4.4	5.60	11.20	7.53	14.01	20.15	28.02	50.43	76.68
	-1.1	4.57	9.14	6.14	11.42	16.43	22.85	41.12	62.53
	-6.7	3.69	7.39	4.96	9.24	13.28	18.47	33.25	50.55
	-12.2	2.96	5.92	3.98	7.40	10.64	14.80	26.63	40.49
	-17.8	2.35	4.69	3.15	5.87	8.43	11.73	21.11	32.10
	-23.3	1.84	3.68	2.47	4.60	6.61	9.20	16.55	25.17
	-28.9	1.42	2.85	1.91	3.56	5.12	7.12	12.82	19.50
	-34.4	1.09	2.18	1.46	2.72	3.92	5.45	9.80	14.90
	-40	0.82	1.64	1.10	2.05	2.95	4.10	7.38	11.22
R-402A HP-80	4.4	9.50	19.00	12.77	23.76	34.16	47.51	85.50	130.01
	-1.1	7.82	15.64	10.51	19.56	28.13	39.12	70.40	107.05
	-6.7	6.39	12.78	8.59	15.99	22.99	31.98	57.55	87.50
	-12.2	5.18	10.37	6.97	12.97	18.65	25.93	46.67	70.96
	-17.8	4.17	8.33	5.60	10.42	14.99	20.85	37.51	57.04
	-23.3	3.32	6.64	4.46	8.30	11.94	16.60	29.87	45.42
	-28.9	2.61	5.23	3.51	6.54	9.40	13.08	23.53	35.78
	-34.4	2.04	4.07	2.74	5.09	7.32	10.19	18.33	27.87
	-40	1.57	3.13	2.10	3.92	5.63	7.83	14.10	21.44
	R-404A	4.4	8.81	17.63	11.85	22.04	31.70	44.09	79.35
-1.1		7.34	14.68	9.86	18.35	26.39	36.71	66.06	100.45
-6.7		5.86	11.73	7.88	14.67	21.09	29.33	52.78	80.26
-12.2		4.73	9.45	6.35	11.82	17.00	23.64	42.54	64.68
-17.8		3.78	7.55	5.07	9.44	13.58	18.89	33.99	51.68
-23.3		2.99	5.97	4.01	7.47	10.74	14.94	26.88	40.88
-28.9		2.34	4.68	3.14	5.85	8.41	11.70	21.05	32.01
-34.4		1.81	3.62	2.43	4.52	6.50	9.04	16.28	24.75
-40		1.38	2.76	1.86	3.45	4.97	6.91	12.43	18.91
R-407A		4.4	8.27	16.54	11.12	20.69	29.75	41.38	74.47
	-1.1	6.74	13.48	9.06	16.86	24.24	33.71	60.67	92.25
	-6.7	5.45	10.89	7.32	13.62	19.59	27.24	49.03	74.55
	-12.2	4.36	8.72	5.86	10.91	15.69	21.82	39.27	59.70
	-17.8	3.46	6.92	4.65	8.65	12.44	17.30	31.14	47.35
	-23.3	2.33	4.65	3.13	5.82	8.36	11.63	20.94	31.83
	-28.9	2.10	4.21	2.83	5.26	7.57	10.53	18.94	28.81
	-34.4	1.61	3.22	2.16	4.03	5.79	8.06	14.50	22.05
	-40	1.22	2.43	1.63	3.04	4.37	6.08	10.94	16.64
	R-407C	4.4	7.90	15.80	10.62	19.76	28.42	39.53	71.13
-1.1		6.44	12.88	8.65	16.10	23.15	32.20	57.96	88.12
-6.7		5.20	10.40	6.99	13.01	18.71	26.02	46.83	71.20
-12.2		4.16	8.33	5.60	10.42	14.98	20.83	37.49	57.00
-17.8		3.30	6.59	4.43	8.25	11.86	16.49	29.68	45.13
-23.3		2.58	5.17	3.47	6.46	9.29	12.93	23.26	35.37
-28.9		2.01	4.02	2.70	5.03	7.23	10.05	18.09	27.51
-34.4		1.53	3.06	2.06	3.83	5.51	7.66	13.78	20.96
-40		1.18	2.37	1.59	2.96	4.26	5.92	10.65	16.20

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °C	kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling							
R-407F	4.4	8.77	17.54	11.78	21.93	31.53	43.86	78.93	120.01
	-1.1	7.17	14.33	9.63	17.92	25.78	35.85	64.52	98.10
	-6.7	5.82	11.63	7.82	14.55	20.92	29.09	52.36	79.61
	-12.2	4.67	9.34	6.28	11.68	16.80	23.36	42.05	63.93
	-17.8	3.72	7.44	5.00	9.30	13.37	18.60	33.47	50.89
	-23.3	2.93	5.86	3.94	7.32	10.53	14.65	26.36	40.09
	-28.9	2.28	4.56	3.06	5.70	8.20	11.41	20.53	31.22
	-34.4	1.75	3.51	2.36	4.39	6.31	8.77	15.78	24.00
	-40	1.33	2.66	1.79	3.32	4.78	6.65	11.96	18.19
R-408A	4.4	8.91	17.82	11.98	22.29	32.05	44.58	80.23	121.99
	-1.1	7.37	14.74	9.91	18.44	26.51	36.87	66.36	100.90
	-6.7	6.05	12.11	8.14	15.14	21.78	30.29	54.51	82.88
	-12.2	4.93	9.87	6.63	12.34	17.75	24.68	44.42	67.54
	-17.8	3.99	7.97	5.36	9.97	14.34	19.94	35.89	54.57
	-23.3	3.19	6.38	4.29	7.98	11.48	15.96	28.73	43.69
	-28.9	2.53	5.06	3.40	6.33	9.10	12.65	22.77	34.62
	-34.4	1.98	3.97	2.66	4.96	7.13	9.92	17.85	27.14
	-40	1.53	3.07	2.06	3.84	5.52	7.68	13.82	21.01
R-410A AZ-20	7.22	13.80	27.59	18.54	34.51	49.62	69.02	124.20	188.85
	4.4	12.55	25.11	16.87	31.40	45.15	62.79	113.01	171.83
	-1.1	10.41	20.81	13.99	26.03	37.43	52.06	93.68	142.45
	-6.7	8.58	17.15	11.53	21.45	30.85	42.90	77.21	117.40
	-12.2	7.01	14.02	9.42	17.54	25.22	35.07	63.12	95.97
	-17.8	5.68	11.36	7.64	14.21	20.43	28.42	51.15	77.77
	-23.3	4.57	9.14	6.14	11.42	16.43	22.85	41.12	62.52
	-28.9	3.63	7.27	4.88	9.09	13.07	18.18	32.71	49.74
	-34.4	2.86	5.72	3.84	7.15	10.28	14.30	25.74	39.13
-40	2.23	4.45	2.99	5.57	8.01	11.14	20.05	30.49	
R-417A	4.4	6.85	13.70	9.21	17.13	24.64	34.27	61.67	93.77
	-1.1	5.44	10.87	7.31	13.59	19.55	27.19	48.93	74.40
	-6.7	4.36	8.71	5.85	10.89	15.66	21.79	39.21	59.61
	-12.2	3.46	6.91	4.65	8.65	12.43	17.29	31.12	47.32
	-17.8	2.72	5.43	3.65	6.79	9.77	13.58	24.44	37.16
	-23.3	2.11	4.22	2.83	5.27	7.58	10.55	18.98	28.86
	-28.9	1.62	3.23	2.17	4.04	5.82	8.09	14.56	22.14
	-34.4	1.22	2.45	1.64	3.06	4.40	6.12	11.01	16.75
	-40	0.91	1.82	1.23	2.28	3.28	4.56	8.21	12.48
R-421A	4.4	7.02	14.04	9.43	17.56	25.25	35.11	63.19	96.08
	-1.1	5.67	11.34	7.62	14.18	20.39	28.36	51.04	77.60
	-6.7	4.54	9.08	6.10	11.36	16.33	22.71	40.87	62.15
	-12.2	3.60	7.20	4.84	9.01	12.95	18.02	32.42	49.30
	-17.8	2.83	5.66	3.80	7.07	10.17	14.14	25.46	38.71
	-23.3	2.20	4.39	2.95	5.49	7.89	10.98	19.76	30.05
	-28.9	1.68	3.37	2.26	4.21	6.05	8.42	15.15	23.03
	-34.4	1.27	2.54	1.71	3.18	4.58	6.37	11.46	17.42
	-40	0.95	1.90	1.27	2.37	3.41	4.74	8.53	12.97

	Model	320	340	900	901	902	903	904	905
Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °C	kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling							
R-422A	4.4	8.43	16.86	11.33	21.09	30.32	42.17	75.90	115.40
	-1.1	6.84	13.69	9.20	17.12	24.62	34.24	61.61	93.69
	-6.7	5.51	11.03	7.41	13.79	19.83	27.58	49.63	75.46
	-12.2	4.40	8.80	5.91	11.00	15.82	22.01	39.61	60.23
	-17.8	3.48	6.96	4.67	8.70	12.51	17.40	31.31	47.61
	-23.3	2.72	5.44	3.65	6.80	9.78	13.60	24.48	37.22
	-28.9	2.10	4.20	2.82	5.26	7.56	10.51	18.92	28.76
	-34.4	1.60	3.20	2.15	4.01	5.76	8.02	14.42	21.93
	-40	1.20	2.41	1.62	3.01	4.33	6.02	10.84	16.48
R-422B	4.4	6.96	13.93	9.35	17.40	25.02	34.80	62.63	95.24
	-1.1	5.69	11.40	7.65	14.24	20.48	28.48	51.25	77.93
	-6.7	4.56	9.13	6.13	11.41	16.41	22.82	41.07	62.45
	-12.2	3.62	7.25	4.87	9.06	13.02	18.11	32.59	49.56
	-17.8	2.89	5.79	3.88	7.23	10.39	14.45	26.01	39.55
	-23.3	2.15	4.31	2.89	5.38	7.74	10.76	19.36	29.44
	-28.9	1.65	3.30	2.22	4.13	5.93	8.25	14.85	22.58
	-34.4	1.28	2.57	1.72	3.20	4.61	6.41	11.53	17.54
	-40	0.95	1.91	1.28	2.39	3.43	4.78	8.59	13.07
R-422C	4.4	8.25	16.49	11.08	20.63	29.66	41.25	74.24	112.88
	-1.1	6.69	13.38	8.99	16.73	24.06	33.46	60.21	91.55
	-6.7	5.38	10.76	7.23	13.46	19.36	26.92	48.45	73.67
	-12.2	4.29	8.58	5.77	10.73	15.43	21.47	38.63	58.74
	-17.8	3.39	6.77	4.55	8.47	12.18	16.94	30.49	46.37
	-23.3	2.64	5.29	3.55	6.61	9.51	13.23	23.80	36.20
	-28.9	2.04	4.08	2.74	5.10	7.34	10.20	18.36	27.92
	-34.4	1.55	3.11	2.09	3.88	5.59	7.77	13.98	21.26
	-40	1.17	2.33	1.57	2.91	4.19	5.83	10.49	15.95
R-422D	4.4	7.46	14.92	10.02	18.66	26.83	37.31	67.15	102.10
	-1.1	6.04	12.07	8.11	15.09	21.71	30.19	54.33	82.61
	-6.7	4.84	9.68	6.51	12.11	17.41	24.22	43.58	66.27
	-12.2	3.85	7.70	5.17	9.62	13.84	19.25	34.64	52.67
	-17.8	3.03	6.05	4.07	7.57	10.88	15.14	27.24	41.42
	-23.3	2.35	4.71	3.16	5.89	8.47	11.77	21.19	32.22
	-28.9	1.81	3.62	2.43	4.52	6.50	9.04	16.27	24.75
	-34.4	1.37	2.74	1.84	3.43	4.93	6.85	12.33	18.75
	-40	1.02	2.04	1.37	2.56	3.68	5.11	9.20	14.00
R-427A	4.4	7.59	15.18	10.20	18.99	27.30	37.97	68.34	103.91
	-1.1	6.18	12.35	8.30	15.45	22.21	30.89	55.59	84.53
	-6.7	4.98	9.96	6.70	12.46	17.92	24.92	44.85	68.19
	-12.2	3.98	7.96	5.35	9.96	14.32	19.92	35.85	54.51
	-17.8	3.15	6.31	4.24	7.88	11.34	15.77	28.38	43.15
	-23.3	2.47	4.94	3.32	6.17	8.88	12.35	22.22	33.79
	-28.9	1.91	3.82	2.57	4.78	6.87	9.55	17.19	26.14
	-34.4	1.46	2.92	1.96	3.65	5.25	7.29	13.13	19.96
	-40	1.10	2.20	1.48	2.75	3.95	5.49	9.88	15.03

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Connection Size		3/8"	3/8"	3/8"	1/2"	5/8"	7/8"	1-1/8"	1-3/8"
Refrigerant	Temp °C	kW @ 37.8°C Condensing 5.6°C Superheat 0°C Subcooling							
R-438A	4.4	7.35	14.70	9.88	18.39	26.44	36.78	66.18	100.63
	-1.1	5.96	11.93	8.01	14.91	21.45	29.83	53.68	81.62
	-6.7	4.80	9.59	6.45	12.00	17.25	23.99	43.18	65.66
	-12.2	3.68	7.35	4.94	9.19	13.22	18.39	33.09	50.31
	-17.8	3.02	6.03	4.05	7.54	10.85	15.09	27.15	41.29
	-23.3	2.35	4.71	3.16	5.89	8.47	11.77	21.19	32.22
	-28.9	1.81	3.63	2.44	4.54	6.53	9.08	16.33	24.84
	-34.4	1.33	2.65	1.78	3.32	4.77	6.63	11.94	18.15
	-40	1.04	2.07	1.39	2.59	3.72	5.18	9.32	14.17
R-507 AZ-50	4.4	9.03	18.07	12.14	22.59	32.49	45.18	81.32	123.64
	-1.1	7.40	14.80	9.95	18.51	26.62	37.02	66.63	101.31
	-6.7	6.02	12.03	8.09	15.05	21.64	30.10	54.17	82.36
	-12.2	4.86	9.72	6.53	12.16	17.48	24.31	43.75	66.53
	-17.8	3.89	7.77	5.22	9.72	13.98	19.44	34.98	53.19
	-23.3	3.08	6.16	4.14	7.70	11.07	15.40	27.71	42.14
	-28.9	2.41	4.83	3.24	6.04	8.68	12.08	21.73	33.04
	-34.4	1.87	3.75	2.52	4.69	6.74	9.37	16.87	25.65
	-40	1.43	2.86	1.92	3.58	5.14	7.15	12.87	19.57
R-508A	See "300 and 900 Series: Ultra Low Temperature (kW)" Chart								
R-508B	See "300 and 900 Series: Ultra Low Temperature (kW)" Chart								
R-600a	See "300 and 900 Series: Natural Refrigerants" Chart								

SELECT OIL SEPARATOR WITH CONNECTION SIZE NO LESS THAN DISCHARGE LINE SIZE.

300 and 900 Series Notes:

1. kW = Capacity based on Condensing Temperature stated in the chart, 5.6°C Superheat, 0°C Subcooling.
2. For applications other than reciprocating compressors, (scroll, screw type, 2-stage) please contact Temprite engineering at temprite@temprite.com.